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Sequence Listing 015181-1 US rev 09-14-04.txt SEQUENCE LISTING

∱WOULFE, SUSAN L. JAIN, RITA BURR, AIMEE

<120> ENGINEERED FAB' FRAGMENT ANTI-TUMOR NECROSIS FACTOR ALPHA IN COMBINATION WITH DISEASE MODIFYING ANTI-RHEUMATIC DRUGS

<130> 122294-1010

<140> US/10/728,420

<141> 2003-12-05

<150> US 60/431,053

<151> 2002-12-05

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<223> Mouse mononclonal antibody hTNF40 CDRH1

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<223> Mouse monoclonal antibody hTNF40/human hybrid CDRH2

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<223> Mouse monoclonal antibody hTNF40 CDRH3

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<223> Mouse monoclonal antibody hTNF40 CDRL1
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Ser Ala Ser Phe Leu Tyr Ser
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G]n Gln Tyr Asn Ile Tyr Pro Leu Thr
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 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
gac cgg gtc acc atc act tgt aaa gcc agt cag aac gta ggt act aac Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Asn Val Gly Thr Asn
                                                                                          96
                 , 20
gta gcc tgg tat cag caa aaa cca ggt aaa gcc cca aaa gcc ctc atc
Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
35 40 45
                                                                                          144
tac agt gcc tct ttc ctc tat agt ggt gta cca tac agg ttc agc gga
Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Tyr Arg Phe Ser Gly
50 60
                                                                                          192
tcc ggt agt ggt act gat ttc acc ctc acg atc agt agc ctc cag cca
                                                                                          240
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gli Pro
gaa gat ttc gcc act tat tac tgt caa cag tat aac atc tac cca ctc
                                                                                          288
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ile Tyr Pro Leu
aca ttc ggt cag ggt act aaa gta gaa atc aaa
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                                                                                          48
tca ctg aga ttg tcc tgt gct gca tct ggt tac gtc ttc aca gac tat
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr val Phe Thr Asp Tyr
                                                                                          96
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Asp Arg Val Ser Val Thr Cys
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<212> PRT
<213> Artificial Sequence
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<400> 85
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1 5 10 15
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Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys
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Leu Thr Ile Ser Thr Val Gln Ser Glu Asp Leu Ala Glu Tyr Phe Cys
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<223> human group 1 consensus framework L4
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<211> 30
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Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Val Phe Thr
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Tṛp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
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<211> 14
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Trp Val Lys Gln Ala Pro Gly Lys Ala Phe Lys Trp Met Gly
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Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Phe Leu Gln
                                         10
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<212> PRT
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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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<223> human group 1 consensus framework H4
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<213> murine
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gac att gtg atg acc cag tct caa aaa ttc atg tcc aca tca gta gga
Asp Ile Val Met Thr Gln Ser Gln Lys Phe Met Ser Thr Ser Val Gly
                                                                          48
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gac Asp	agg Arg	gtc Val	agc Ser 20	gtc Val	acc	tgc	aag	qcc	agt	caq	aat	ata	aat	act Thr	04.txt aat Asn	96
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gaa Glu	gac Asp	ttg Leu	gca Ala	gag Glu 85	tat Tyr	ttc Phe	tgt Cys	cag Gln	caa Gln 90	tat Tyr	aac Asn	atc Ile	tat Tyr	cct Pro 95	ctc Leu	288
acg Thr	ttc Phe	ggt Gly	gct Ala 100	ggg Gly	acc Thr	aag Lys	ctg Leu	gag Glu 105	ctg Leu	aaa Lys	cgt Arg					324
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aag Lys 65	gga Gly	cga Arg	ttt Phe	gcc Ala	ttc Phe 70	tct Ser	ttg Leu	gaa Glu	acc Thr	tct Ser 75	gcc Ala	agc Ser	act Thr	gcc Ala	ttt Phe 80	240
ttg Leu	cag Gln	atc Ile	aac Asn	aac Asn 85	ctc Leu	aaa Lys	aat Asn	gag Glu	gac Asp 90	acg Thr	gct Ala	aca Thr	tat Tyr	ttc Phe 95	tgt Cys	288
gca a	aga Arg	GIY	tac Tyr 100	cgg Arg	tcc Ser	tat Tyr	Ala	atg Met 105	Asp	tac Tyr age	Trp	ggt Gly	caa Gln 110	gga Gly	acc Thr	336

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tca gtc acc gtc tct tca
Ser Val Thr Val Ser Ser
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cttggctctg acgtacgagt cagg
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  Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys Met Lys
aag act gct ata gca att g
Lys Thr Ala Ile Ala Ile
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Sequence Listing 015181-1 US rev 09-14-04.txt
  Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys *
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                                                                            81
                 Met Lys Lys Thr Ala Ile Ala Ile
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Ser Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys *
                                                                           43
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                                                                           81
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15 20
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Sequence Listing 015181-1 US rev 09-14-04.txt
 <223> human group 3 consensus framework H1
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<223> human group 3 consensus framework H2
<400> 107
Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser
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<211> 32
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Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
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<211> 11
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<223> human group 3 consensus framework H4
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Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Ala Leu Ile
35 40 45
Tyr Ser Ala Ser Phe Leu Tyr Ser Gly Val Pro Tyr Arg Phe Ser Gly 50 ____ 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65
                     70
                                          75
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Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly
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                                                   125
Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala
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                         135
                                              140
Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln 145 150 155 160
Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser
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                                                           175
                 165
Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr
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Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser
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Sequence Listing 015181-1 US rev 09-14-04.txt
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 Lys Gly Arg Phe Thr Phe Ser Leu Asp Thr Ser Lys Ser Thr Ala Tyr
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Ala Arg Gly Tyr Arg Ser Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr
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Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
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                                                170
Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
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